

<110> Human Genome Sciences, Inc.

<120> Keratinocyte Derived Interferon

<130> PF482P1

<140> Unassigned

<141> 2000-01-20

<150> 60/093,643

<151> 1998-07-21

<150> PCT/US99/16424

<151> 1999-07-21

<160> 54

<170> PatentIn Ver. 2.1

<210> 1

<211> 1170

<212> DNA

<213> Homo sapiens

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$\langle 222 \rangle$ (35) . . (655)

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1 5

att caa aag tgt ttg tgg ctt gag atc ctt atg ggt ata ttc att gct 103
Ile Gln Lys Cys Leu Trp Leu Glu Ile Leu Met Gly Ile Phe Ile Ala
10 15 20

ggc acc cta tcc ctg gac tgt aac tta ctg aac gtt cac ctg aga aga 151
Gly Thr Leu Ser Leu Asp Cys Asn Leu Leu Asn Val His Leu Arg Arg
25 30 35

gtc acc tgg caa aat ctg aga cat ctg agt agt atg agc aat tca ttt 199
Val Thr Trp Gln Asn Leu Arg His Leu Ser Ser Met Ser Asn Ser Phe
40 45 50 55

cct gta gaa tgt cta cga gaa aac ata gct ttt gag ttg ccc caa gag 247
Pro Val Glu Cys Leu Arg Glu Asn Ile Ala Phe Glu Leu Pro Gln Glu
60 65 70

ttt ctg caa tac acc caa cct atg aag agg gac atc aag aag gcc ttc 295
Phe Leu Gln Tyr Thr Gln Pro Met Lys Arg Asp Ile Lys Lys Ala Phe
75 80 85

tat	gaa	atg	tcc	cta	cag	gcc	ttc	aac	atc	ttc	agc	caa	cac	acc	ttc	343
Tyr	Glu	Met	Ser	Leu	Gln	Ala	Phe	Asn	Ile	Phe	Ser	Gln	His	Thr	Phe	
		90					95					100				

aaa tat tgg aaa gag aga cac ctc aaa caa atc caa ata gga ctt gat 391
Lys Tyr Trp Lys Glu Arg His Leu Lys Gln Ile Gln Ile Gly Leu Asp
105 110 115

254

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<211> 207
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<213> Homo sapiens
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Met Ser Thr Lys Pro Asp Met Ile Gln Lys Cys Leu Trp Leu Glu Ile
1 5 10 15

Leu Met Gly Ile Phe Ile Ala Gly Thr Leu Ser Leu Asp Cys Asn Leu
20 25 30

Leu Asn Val His Leu Arg Arg Val Thr Trp Gln Asn Leu Arg His Leu
35 40 45

Ser Ser Met Ser Asn Ser Phe Pro Val Glu Cys Leu Arg Glu Asn Ile
50 55 60

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<213> Homo sapiens
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Leu Glu Leu Arg Arg Tyr Phe His Arg Ile Asp Asn Phe Leu Lys Glu
 145 150 155 160
 Lys Lys Tyr Ser Asp Cys Ala Trp Glu Ile Val Arg Val Glu Ile Arg
 165 170 175
 Arg Cys Leu Tyr Tyr Phe Tyr Lys Phe Thr Ala Leu Pro Ala Leu Thr
 180 185 190
 Leu Arg Arg Tyr Phe Gln Gly Ile Arg Val Tyr Leu Lys Glu Lys Lys
 195 200 205
 Tyr Ser Asp Cys Ala Trp Glu Val Val Arg Met Glu Ile Met Lys Ser
 210 215 220
 Leu Phe Leu Ser Thr Asn Met Gln Glu Arg Leu Arg Ser Lys
 225 230 235

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 Thr Thr Ala Leu Ser Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg
 20 25 30
 Ser Ser Asn Phe Gln Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg
 35 40 45
 Leu Glu Tyr Cys Leu Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu
 50 55 60
 Ile Lys Gln Leu Gln Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile
 65 70 75 80
 Tyr Glu Met Leu Gln Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser
 85 90 95
 Ser Thr Gly Trp Asn Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val
 100 105 110
 Tyr His Gln Ile Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu
 115 120 125
 Lys Glu Asp Phe Thr Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys
 130 135 140
 Arg Tyr Tyr Gly Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser
 145 150 155 160
 His Cys Ala Trp Thr Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr
 165 170 175
 Phe Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn
 180 185

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<400> 6
Met Ala Leu Leu Phe Pro Leu Leu Ala Ala Leu Val Met Thr Ser Tyr
  1             5             10             15
Ser Pro Val Gly Ser Leu Gly Cys Asp Leu Pro Gln Asn His Gly Leu
          20             25             30
Leu Ser Arg Asn Thr Leu Val Leu Leu His Gln Met Arg Arg Ile Ser
      35             40             45
Pro Phe Leu Cys Leu Lys Asp Arg Arg Asp Phe Arg Phe Pro Gln Glu

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<210> 7
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Lys	Ser	Ile	Cys	Ser	Leu	Gly	Cys	Asp	Leu	Pro	Gln	Thr	His	Ser	Leu	
			20					25					30			
Gly	Asn	Arg	Arg	Ala	Leu	Ile	Leu	Leu	Gly	Gln	Met	Gly	Arg	Ile	Ser	
		35					40					45				
Pro	Phe	Ser	Cys	Leu	Lys	Asp	Arg	His	Asp	Phe	Arg	Ile	Pro	Gln	Glu	
	50					55					60					
Glu	Phe	Asp	Gly	Asn	Gln	Phe	Gln	Asp	Ala	Gln	Ala	Ile	Ser	Val	Leu	
65					70					75					80	
His	Glu	Met	Ile	Gln	Gln	Thr	Phe	Asn	Leu	Phe	Ser	Thr	Glu	Asp	Ser	
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200

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Lys  Ser  Ile  Cys  Ser  Leu  Gly  Cys  Asp  Leu  Pro  Gln  Thr  His  Ser  Leu
          20          25          30

Gly  Asn  Arg  Arg  Ala  Trp  Ile  Leu  Leu  Ala  Gln  Met  Gly  Arg  Ile  Ser
          35          40          45

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261

His Phe Ser Cys Leu Lys Asp Arg Tyr Asp Phe Gly Phe Pro Gln Glu
 50 55 60
 Val Phe Asp Gly Asn Gln Phe Gln Lys Ala Gln Ala Ile Ser Ala Phe
 65 70 75 80
 His Glu Met Ile Gln Gln Thr Phe Asn Leu Phe Ser Thr Lys Asp Ser
 85 90 95
 Ser Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Ile Glu Leu
 100 105 110
 Phe Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Thr Gln Glu Val Gly
 115 120 125
 Val Glu Glu Ile Ala Leu Met Asn Glu Asp Ser Ile Leu Ala Val Arg
 130 135 140
 Lys Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Met Gly Lys Lys Tyr Ser
 145 150 155 160
 Pro Cys Ala Trp Glu Val Val Arg Ala Glu Ile Met Arg Ser Phe Ser
 165 170 175
 Phe Ser Thr Asn Leu Gln Lys Gly Leu Arg Arg Lys Asp
 180 185

<210> 11
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 <212> PRT
 <213> Homo sapiens

<400> 11
 Met Ala Phe Val Leu Ser Leu Leu Met Ala Leu Val Leu Val Ser Tyr
 1 5 10 15
 Gly Pro Gly Arg Ser Leu Gly Cys Tyr Leu Ser Glu Asp His Met Leu
 20 25 30
 Gly Ala Arg Glu Asn Leu Arg Leu Leu Ala Arg Met Asn Arg Leu Ser
 35 40 45
 Pro His Pro Cys Leu Gln Asp Arg Lys Asp Phe Gly Leu Pro Gln Glu
 50 55 60
 Met Val Glu Gly Asn Gln Leu Gln Lys Asp Gln Ala Ile Ser Val Leu
 65 70 75 80
 His Glu Met Leu Gln Gln Cys Phe Asn Leu Phe Tyr Thr Glu His Ser
 85 90 95
 Ser Ala Ala Trp Asn Thr Thr Leu Leu Glu Gln Leu Cys Thr Gly Leu
 100 105 110
 Gln Gln Gln Leu Glu Asp Leu Asp Ala Cys Leu Gly Pro Val Met Gly
 115 120 125
 Glu Lys Asp Ser Asp Met Gly Arg Met Gly Pro Ile Leu Thr Val Lys
 130 135 140
 Lys Tyr Phe Gln Gly Ile His Val Tyr Leu Lys Glu Lys Glu Tyr Ser

262

000270-2626150

145 150 155 160

Asp Cys Ala Trp Glu Ile Ile Arg Met Glu Met Met Arg Ala Leu Ser
 165 170 175

Ser Ser Thr Thr Leu Gln Lys Arg Leu Arg Lys Met Gly Gly Asp Leu
 180 185 190

Asn Ser Leu
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<210> 12
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<400> 12

Met Ala Phe Val Leu Ser Leu Leu Met Ala Leu Val Leu Val Ser Tyr
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Gly Pro Gly Gly Ser Leu Gly Cys Tyr Leu Ser Gln Arg Leu Met Leu
 20 25 30

Asp Ala Arg Glu Asn Leu Lys Leu Leu Glu Pro Met Asn Arg Leu Ser
 35 40 45

Pro His Ser Cys Leu Gln Asp Arg Lys Asp Phe Gly Leu Pro Gln Glu
 50 55 60

Met Val Glu Gly Asp Gln Leu Gln Lys Asp Gln Ala Phe Pro Val Leu
 65 70 75 80

Tyr Glu Met Leu Gln Gln Thr Phe Asn Leu Phe His Thr Glu His Ser
 85 90 95

Ser Ala Ala Trp Asp Thr Thr Leu Leu Glu Gln Leu Cys Thr Gly Leu
 100 105 110

Gln Gln Gln Leu Glu Asp Leu Asp Thr Cys Cys Arg Gly Gln Val Met
 115 120 125

Gly Glu Glu Asp Ser Glu Leu Gly Asn Met Asp Pro Ile Val Thr Val
 130 135 140

Lys Lys Tyr Phe Gln Gly Ile Tyr Asp Tyr Leu Gln Glu Lys Gly Tyr
 145 150 155 160

Ser Asp Cys Ala Trp Glu Ile Val Arg Val Glu Met Met Arg Ala Leu
 165 170 175

Thr Val Ser Thr Thr Leu Gln Lys Arg Leu Thr Lys Met Gly Gly Asp
 180 185 190

Leu Asn Ser Pro
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<210> 13
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263

000210 26228450

Met 1	Ala	Gln	Ile	Tyr 5	Leu	Val	Met	Ala	Gly 10	Val	Met	Leu	Cys	Ser 15	Ile
Ser	Val	Cys	Phe 20	Leu	Asp	Gln	Asn	Leu 25	Ser	Ala	Val	His	Cys 30	Val	Glu
Lys	Arg	Glu 35	Ile	Phe	Lys	His	Leu 40	Gln	Glu	Ile	Lys	Lys 45	Ile	Pro	Ser
Gln	Leu 50	Cys	Leu	Lys	Asp	Arg 55	Ile	Asp	Phe	Lys	Phe 60	Pro	Trp	Lys	Arg
Glu 65	Ser	Ile	Thr	Gln	Leu 70	Gln	Lys	Asp	Gln	Ala 75	Phe	Pro	Val	Leu	Tyr 80
Glu	Met	Leu	Gln	Gln 85	Thr	Phe	Asn	Leu	Phe 90	His	Thr	Glu	His	Ser 95	Ser
Ala	Ala	Trp	Asn 100	Thr	Thr	Leu	Leu	Asp 105	Gln	Leu	Leu	Ser	Ser 110	Leu	Asp
Leu	Gly	Leu 115	Arg	Arg	Leu	Glu	His 120	Met	Lys	Lys	Asp	Asn 125	Met	Asp	Cys
Pro	His 130	Val	Gly	Ser	Ala	Leu 135	Arg	Lys	Tyr	Phe	Gln 140	Gly	Ile	Gly	Leu
Tyr 145	Leu	Lys	Glu	Lys	Lys 150	Tyr	Ser	Pro	Cys	Ala 155	Trp	Glu	Ile	Val	Arg 160
Val	Glu	Ile	Glu	Arg 165	Cys	Phe	Ser	Leu	Thr 170						

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<210> 14
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Met	Asn	Ser	Phe	Ser	Thr	Ser	Ala	Phe	Gly	Pro	Val	Ala	Phe	Ser	Leu
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Gly	Leu	Leu	Leu	Val	Leu	Pro	Ala	Ala	Phe	Pro	Ala	Pro	Val	Pro	Pro
			20					25					30		
Gly	Glu	Asp	Ser	Lys	Asp	Val	Ala	Ala	Pro	His	Arg	Gln	Pro	Leu	Thr
		35					40					45			
Ser	Ser	Glu	Arg	Ile	Asp	Lys	Gln	Ile	Arg	Tyr	Ile	Leu	Asp	Gly	Ile
	50					55					60				
Ser	Ala	Leu	Arg	Lys	Glu	Thr	Cys	Asn	Lys	Ser	Asn	Met	Cys	Glu	Ser
65					70					75					80
Ser	Lys	Glu	Ala	Leu	Ala	Glu	Asn	Asn	Leu	Asn	Leu	Pro	Lys	Met	Ala
				85					90					95	
Lys	Glu	Asp	Gly	Cys	Phe	Gln	Ser	Gly	Phe	Asn	Glu	Glu	Thr	Cys	Leu
			100					105					110		

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<210> 15
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<213> Homo sapiens
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<400> 15															
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1				5					10					15	
Thr	Thr	Ala	Leu	Ser	Arg	Ser	Tyr	Ser	Leu	Leu	Arg	Phe	Gln	Gln	Arg
			20					25					30		
Arg	Ser	Leu	Ala	Leu	Cys	Gln	Lys	Leu	Leu	Arg	Gln	Leu	Pro	Ser	Thr
		35					40					45			
Pro	Gln	His	Cys	Leu	Glu	Ala	Arg	Met	Asp	Phe	Gln	Met	Pro	Glu	Glu
	50					55					60				
Met	Lys	Gln	Ala	Gln	Gln	Phe	Gln	Lys	Glu	Asp	Ala	Ile	Leu	Val	Ile
65					70					75					80
Tyr	Glu	Met	Leu	Gln	Gln	Ile	Phe	Asn	Ile	Leu	Thr	Arg	Asp	Phe	Ser
				85					90					95	
Ser	Thr	Gly	Trp	Ser	Glu	Thr	Ile	Ile	Glu	Asp	Leu	Leu	Glu	Glu	Leu
			100					105					110		
Tyr	Glu	Gln	Met	Asn	His	Leu	Glu	Pro	Ile	Gln	Lys	Glu	Ile	Met	Gln
		115					120					125			
Lys	Gln	Asn	Ser	Thr	Met	Gly	Asp	Thr	Thr	Val	Leu	His	Leu	Arg	Lys
	130					135					140				
Tyr	Tyr	Phe	Asn	Leu	Val	Gln	Tyr	Leu	Lys	Ser	Lys	Glu	Tyr	Asn	Arg
145					150					155					160
Cys	Ala	Trp	Thr	Val	Val	Arg	Val	Gln	Ile	Leu	Arg	Asn	Phe	Ser	Phe
				165					170					175	

2605

266

Ser Thr Gly Trp Asn Ser Thr Thr Glu Asp Thr Ile Val Pro His Leu
100 105 110

Gly Lys Tyr Tyr Phe Asn Leu Met Gln Tyr Leu Glu Ser Lys Glu Tyr
115 120 125

Asp Arg Cys Ala Trp Thr Val Val Gln Val Gln Ile Leu Thr Asn Val
130 135 140

Ser Phe Leu Met Arg Leu Thr Gly Tyr Val Arg Asp
145 150 155

<210> 21

<211> 166

<212> PRT

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<400> 21

Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
1 5 10 15

Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
20 25 30

Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
35 40 45

Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
50 55 60

Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
65 70 75 80

Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
85 90 95

His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
100 105 110

Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
115 120 125

Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
130 135 140

Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
145 150 155 160

Thr Gly Tyr Leu Gly Asn
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<210> 22

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<212> DNA

<213> Homo sapiens

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267

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<210> 27
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gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 29
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<400> 29
gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 30
<211> 12
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<400> 30
ggggactttc cc 12

<210> 31
<211> 73
<212> DNA
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ccatctcaat tag 73

<210> 32
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caattagtca gcaaccatag tcccggccct aactccgcc atcccggccc taactccgcc 120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagctt 256

<210> 33
<211> 35
<212> DNA
<213> Homo sapiens

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gcgcgcggta ccttatcttc tgatttccac tcgga 35

<210> 34
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<212> DNA
<213> Homo sapiens

269


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<210> 41
<211> 22
<212> DNA
<213> Homo sapiens
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270

<400> 41
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 <400> 42
 cgtccacgga atgagaccat 20
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 ccacggttcc ctgcctggca g 21
 <210> 44
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 <213> Homo sapiens
 <400> 44
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 <210> 46
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 <210> 47
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 ctttgatgcc ctgggtcagt 20
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<400> 49

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<210> 50

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